

# **EXHIBIT 34**

**Subject:** Last call for multi-AF VRF CLI review comments  
**From:** lrevarde@cisco.com ("Luc Revardel \lrevarde\")  
**Received(Date):** Tue, 31 Aug 2004 11:59:23 GMT

Hello,

Here is the finalized CLI for VRF supporting multiple address-families (ipv4 and ipv6). This is part of 6VPE project (see EDCS-274057 & EDCS-357882) targeted to 12.2S RLS7.  
 Please provide feedback as soon as possible.

Thanks  
 Luc

A- The following describes what has been changed versus existing vrf CLI for ipv4.

1- vrf configuration command:  
 router(config)#vrf ?  
   definition VRF definition mode  
   selection selection criteria  
   upgrade-cli upgrade cli

2- Entering VRF definition mode (equivalent to "ip vrf <name>" command):  
 router(config)#vrf definition <name>

3- Activating an address family inside a given VRF and enter AF configuration mode:  
 router(config-vrf)#address-family {ipv4 | ipv6}

4- Interface mode vrf command (equivalent to "ip vrf ..."):  
 router(config-if)#vrf ?  
   forwarding Configure forwarding table  
   receive Add Interface Address into VRF Table  
   select Enable VRF selection  
   sitemap Configure route-map for routes received from this site

5- Displaying VRFs (equivalent to "show ip vrf ...")  
 router#show vrf [ipv4 | ipv6] ...  
 All the following keywords are unchanged.

6- Configuration template:  
 vrf definition <name>  
   rd <xx:yy>  
   vpn id <id>  
   context <name>  
   route-target import <xxx:x>  
   route-target export xxx:x  
   import route-map <name>  
   export route-map <name>  
 !  
 address-family ipv4  
   route-target import xxx:x  
   route-target export xxx:x  
   import map <name>  
   export map <name>

```

    exit-address-family
!
address-family ipv6
    route-target import xxx:x
    route-target export xxx:x
    import map <name>
    export map <name>
    exit-address-family
!
interface <name>
    vrf forwarding <name>

```

#### B- Migration considerations

The old CLI mode for IPv4 (ip vrf <name>) will be supported and never migrated or deprecated until new decision.

To force the CLI migration ("ip vrf <name>" to "vrf definition <name>" + "address-family ipv4"), a new command is defined (similar to "bgp upgrade-cli"):

```
router(config)#vrf upgrade-cli
```

Some backward compatibility rules:

Both old and new CLI can coexist.

A vrf created with old style (ip vrf) can only be activated using "ip vrf forwarding".

A vrf created with new style can only be activated using "vrf forwarding".